

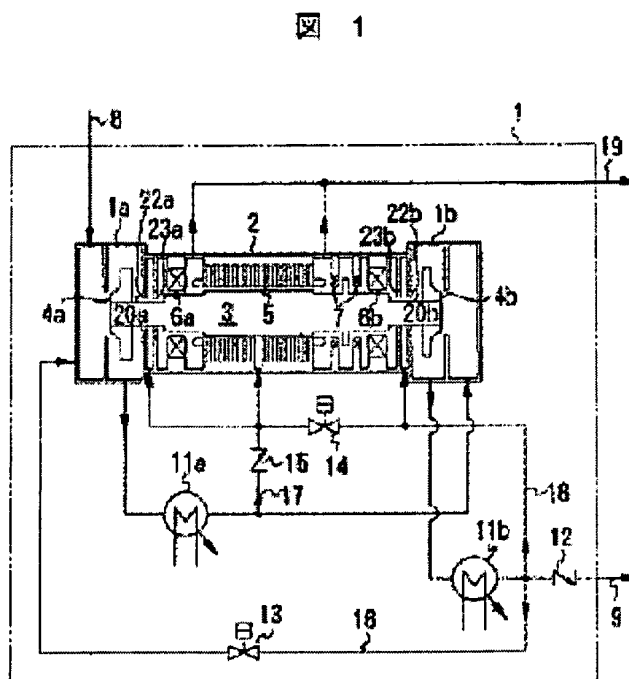
**CENTRIFUGAL COMPRESSOR WITH MAGNETIC BEARING**

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**Abstract of JP2001123997**

**PROBLEM TO BE SOLVED:** To reduce the consumption of cooling air and to improve economics by preventing high-temperature gas from leaking from an impeller to a magnetic bearing, in a centrifugal compressor mounted with a magnetic bearing. **SOLUTION:** Compressed gas downstream of an inter-cooler 11a is introduced to a magnetic bearing 6a of a first stage impeller side, and compressed gas downstream of an after-cooler 11b is introduced to a magnetic bearing 6b on a second stage impeller side. Therefore, high-temperature gas is prevented from leaking from impellers 4a, 4b to the magnetic bearings 6a, 6b, the consumption of cooling air is reduced, and the economics is improved.



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